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T 3284

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

Second Semester

Textile Technology (Fashion Technology)

FT 1152 — YARN MANUFACTURE

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List out the yarn numbering system by direct method.
2. Compare nylon and polyester for any four properties.
3. What is the need of mixing fibres prior to spinning?
4. Give the role of scutcher.
5. Write the objects of carding.
6. How nep removal is performed in the card?
7. Mention the Lap forming machines used in comber preparatory.
8. What are the effects achieved in combed yarn?
9. Give the processes involved in speed frame.
10. What are the roles performed by Traveller?

PART B — (5 × 16 = 80 marks)

11. (a) What are the new textile fibres available in the textile market? Explain the parameters needed for fibres used as textiles. (6 + 10)

Or

- (b) What are maturity and fineness of cotton fibre? Explain, how fineness and maturity influence the properties of yarn. (4 + 12)
12. (a) Elaborate the operations carried out in step cleaner.

Or

- (b) Explain, how cleaning efficiency of blow room can be improved.
13. (a) Elaborate the construction of Licker-in and pre carding segments used in modern card.

Or

- (b) Using the following data, calculate the production (kg) per shift and total draft applied in the card;
- Hank of feed Lap : 0.0015 Ne
Production rate : 200 m/min.
Hank of sliver : 0.11 Ne.
Waste removed at the card : 5 %
Efficiency : 94%.

14. (a) Elaborate the functions of sliver lap and ribbon lap machine. (8 + 8)

Or

- (b) Explain the sequence of operation of comber for cotton system.
15. (a) Give an account on the mechanism of twist insertion in the ring and rotor spinning machine.

Or

- (b) What are the important elements of roller drafting system? Describe the drafting system used in the modern ring frame. (6 + 10)